

# POAP Sensor Pixel Cell Array

100

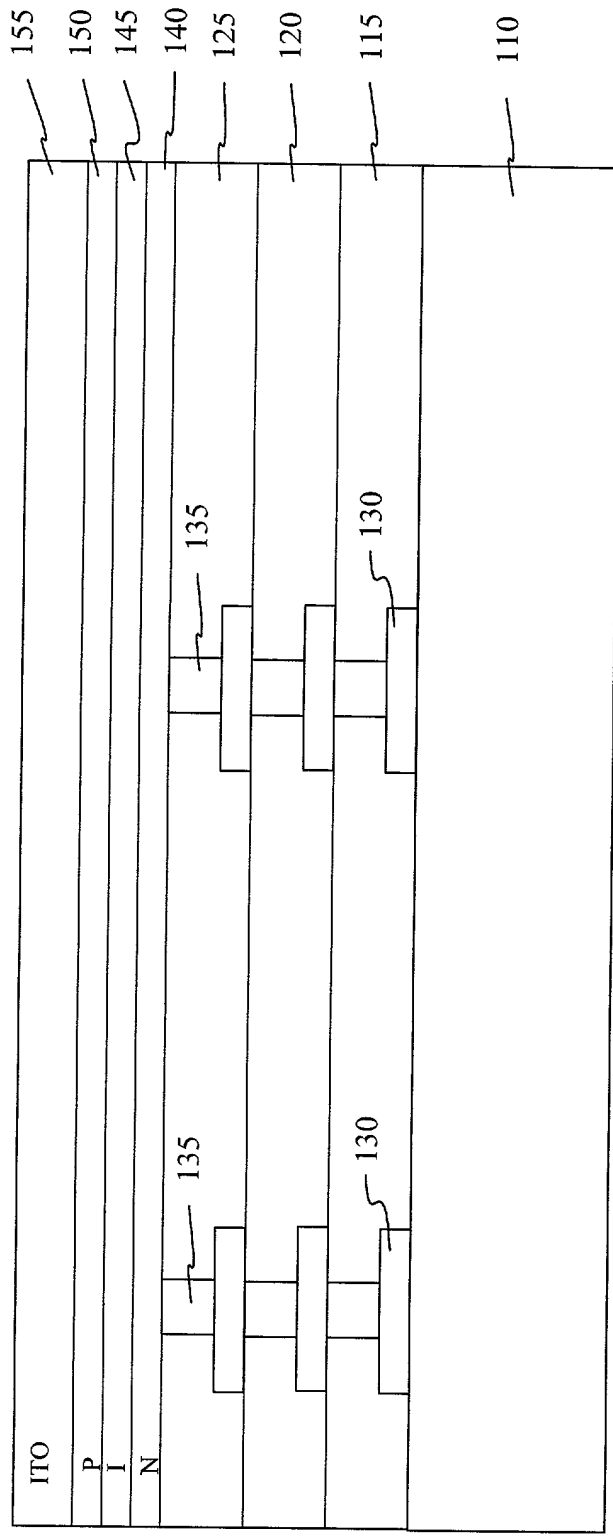
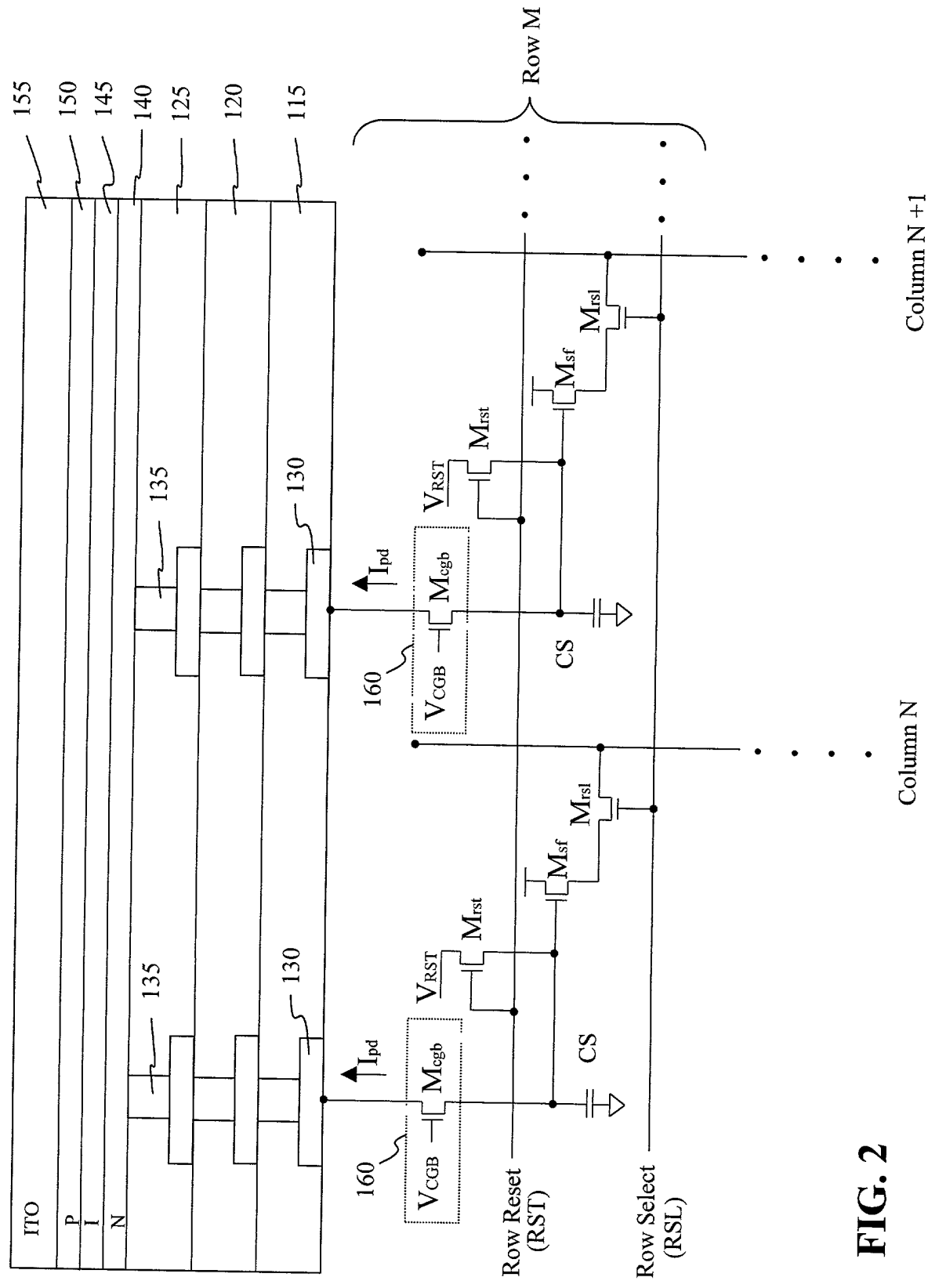


FIG. 1

# Pixel Cell Array And Related Circuitry



**FIG. 2**

Table 1. Demographic characteristics of the study population	
Age (years)	50.0 ± 10.0
Gender (male/female)	100/100
Education (years)	12.0 ± 2.0
Occupation (white/blue)	100/100
Marital status (married/divorced/separated)	100/100/100
Religion (Muslim/Jewish/Christian)	100/100/100
Smoking status (smoker/non-smoker)	100/100
Alcohol consumption (yes/no)	100/100
Family size (number of children)	2.0 ± 1.0
Income (TL/month)	1000.0 ± 500.0
Health insurance (yes/no)	100/100
Comorbidities (hypertension/diabetes/asthma)	100/100/100
Medication (yes/no)	100/100
Physical activity (yes/no)	100/100
Stress level (low/moderate/high)	100/100/100
Quality of life (SF-36 score)	50.0 ± 10.0
Life satisfaction (yes/no)	100/100
Overall health (good/fair/poor)	100/100/100

**FIG. 3**  
**(PIN Diode)**

160

$V_{CGB}$

$M_{cgb}$

Incident Light

$V_{ITO}$

170

$V_{RST}$

RST

$M_{rst}$

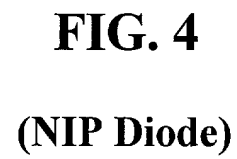
CS

$M_{sf}$

RSL

$M_{rsl}$

Column Signal Bus



200

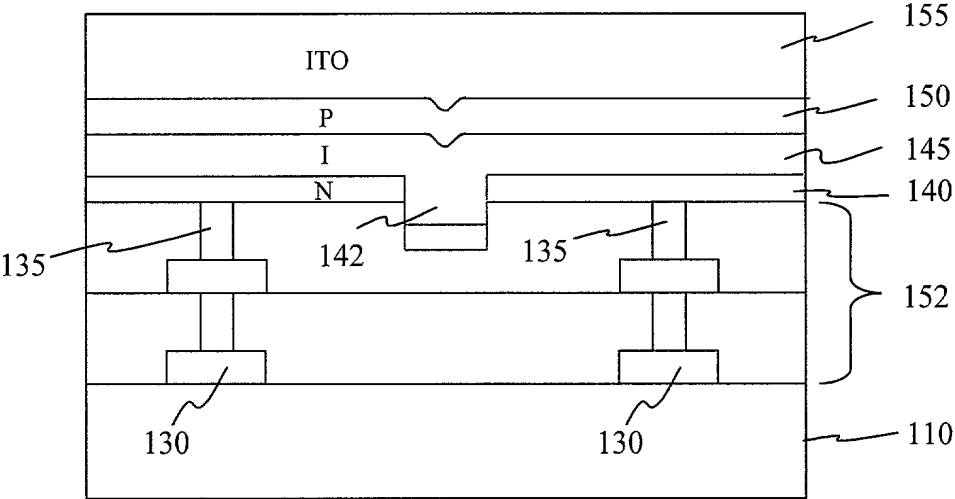


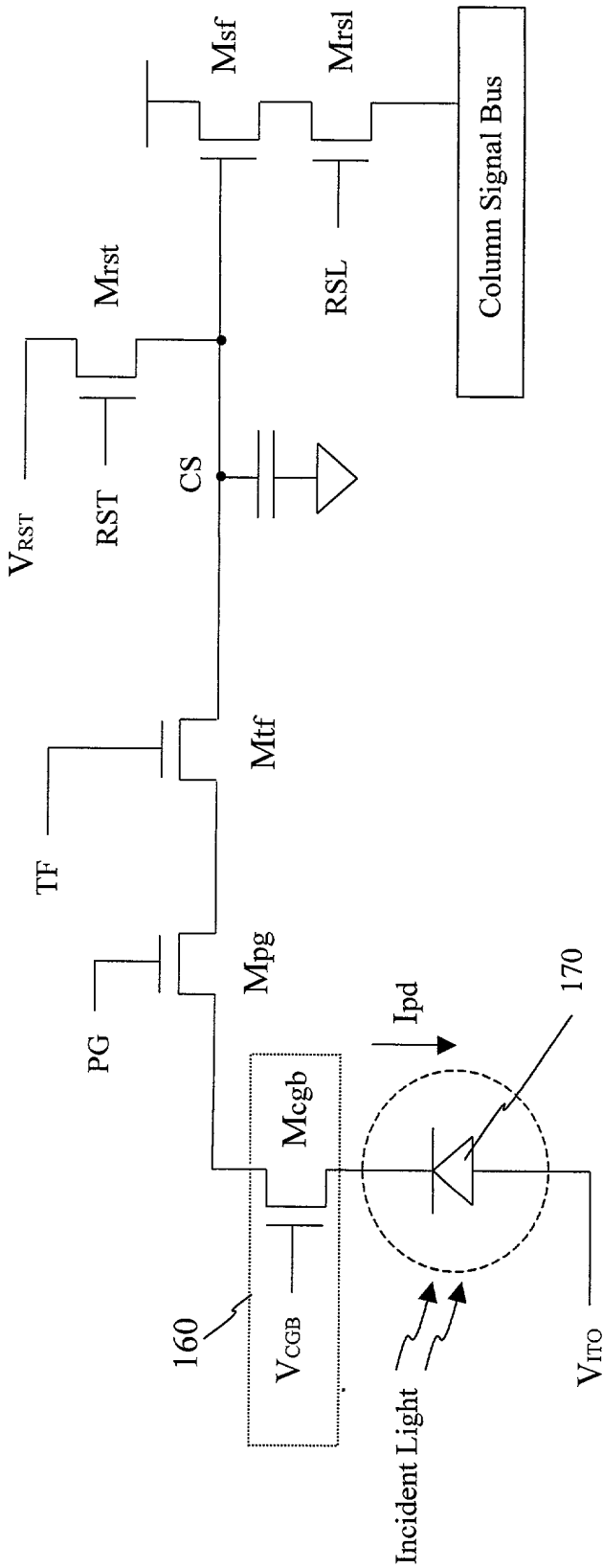
FIG. 5

Table 1. Demographic characteristics of the study population	
Age (years)	65.2 ± 1.2
Gender	Male 50.0%
Education (years)	12.5 ± 0.5
Marital status	Married 75.0%
Occupation	Retired 60.0%
Income (USD/month)	1,200 ± 200
Health status	Good 70.0%
Smoking status	Smoker 30.0%
Alcohol consumption	Occasional 40.0%
Exercise frequency	Regular 50.0%
Family size	3.5 ± 0.5
Living arrangement	Alone 20.0%
Religious affiliation	Christian 80.0%
Political affiliation	Democrat 60.0%
Health insurance	Private 70.0%
Medical history	Hypertension 40.0%
Diabetes 20.0%	
Heart disease 10.0%	
Stroke 5.0%	
Other 15.0%	
Current medications	Antihypertensives 30.0%
Diabetes medications 10.0%	
Heart medications 5.0%	
Stroke medications 2.0%	
Other medications 13.0%	
Compliance with medication	High 60.0%
Low 40.0%	
Healthcare utilization	Regular 50.0%
Emergency 10.0%	
Other 40.0%	
Healthcare satisfaction	Satisfied 70.0%
Dissatisfied 30.0%	
Healthcare access	Good 60.0%
Poor 40.0%	
Healthcare cost	High 30.0%
Low 70.0%	
Healthcare quality	Good 60.0%
Poor 40.0%	
Healthcare safety	Good 70.0%
Poor 30.0%	
Healthcare effectiveness	Good 60.0%
Poor 40.0%	
Healthcare equity	Good 50.0%
Poor 50.0%	
Healthcare transparency	Good 60.0%
Poor 40.0%	
Healthcare accountability	Good 70.0%
Poor 30.0%	
Healthcare integrity	Good 60.0%
Poor 40.0%	
Healthcare ethics	Good 70.0%
Poor 30.0%	
Healthcare professionalism	Good 60.0%
Poor 40.0%	
Healthcare communication	Good 70.0%
Poor 30.0%	
Healthcare collaboration	Good 60.0%
Poor 40.0%	
Healthcare leadership	Good 70.0%
Poor 30.0%	
Healthcare innovation	Good 60.0%
Poor 40.0%	
Healthcare research	Good 70.0%
Poor 30.0%	
Healthcare education	Good 60.0%
Poor 40.0%	
Healthcare training	Good 70.0%
Poor 30.0%	
Healthcare development	Good 60.0%
Poor 40.0%	
Healthcare improvement	Good 70.0%
Poor 30.0%	
Healthcare excellence	Good 60.0%
Poor 40.0%	
Healthcare achievement	Good 70.0%
Poor 30.0%	
Healthcare success	Good 60.0%
Poor 40.0%	
Healthcare progress	Good 70.0%
Poor 30.0%	
Healthcare growth	Good 60.0%
Poor 40.0%	
Healthcare expansion	Good 70.0%
Poor 30.0%	
Healthcare diversification	Good 60.0%
Poor 40.0%	
Healthcare globalization	Good 70.0%
Poor 30.0%	
Healthcare internationalization	Good 60.0%
Poor 40.0%	
Healthcare regionalization	Good 70.0%
Poor 30.0%	
Healthcare localization	Good 60.0%
Poor 40.0%	
Healthcare customization	Good 70.0%
Poor 30.0%	
Healthcare personalization	Good 60.0%
Poor 40.0%	
Healthcare individualization	Good 70.0%
Poor 30.0%	
Healthcare differentiation	Good 60.0%
Poor 40.0%	
Healthcare specialization	Good 70.0%
Poor 30.0%	
Healthcare generalization	Good 60.0%
Poor 40.0%	
Healthcare broadening	Good 70.0%
Poor 30.0%	
Healthcare widening	Good 60.0%
Poor 40.0%	
Healthcare deepening	Good 70.0%
Poor 30.0%	
Healthcare strengthening	Good 60.0%
Poor 40.0%	
Healthcare solidifying	Good 70.0%
Poor 30.0%	
Healthcare consolidating	Good 60.0%
Poor 40.0%	
Healthcare centralizing	Good 70.0%
Poor 30.0%	
Healthcare decentralizing	Good 60.0%
Poor 40.0%	
Healthcare regionalizing	Good 70.0%
Poor 30.0%	
Healthcare localizing	Good 60.0%
Poor 40.0%	
Healthcare customizing	Good 70.0%
Poor 30.0%	
Healthcare personalizing	Good 60.0%
Poor 40.0%	
Healthcare individualizing	Good 70.0%
Poor 30.0%	
Healthcare differentiating	Good 60.0%
Poor 40.0%	
Healthcare specializing	Good 70.0%
Poor 30.0%	
Healthcare generalizing	Good 60.0%
Poor 40.0%	
Healthcare broadening	Good 70.0%
Poor 30.0%	
Healthcare widening	Good 60.0%
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Healthcare deepening	Good 70.0%
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Healthcare strengthening	Good 60.0%
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Poor 30.0%	
Healthcare customizing	Good 60.0%
Poor 40.0%	
Healthcare personalizing	Good 70.0%
Poor 30.0%	
Healthcare individualizing	Good 60.0%
Poor 40.0%	
Healthcare differentiating	Good 70.0%
Poor 30.0%	
Healthcare specializing	Good 60.0%
Poor 40.0%	
Healthcare generalizing	Good 70.0%
Poor 30.0%	
Healthcare broadening	Good



**Individual Pixel Cell Circuitry  
(Six-Transistor Architecture)**

(PIN Diode)



**FIG. 8**

# Individual Pixel Cell Circuitry (Six-Transistor Architecture)

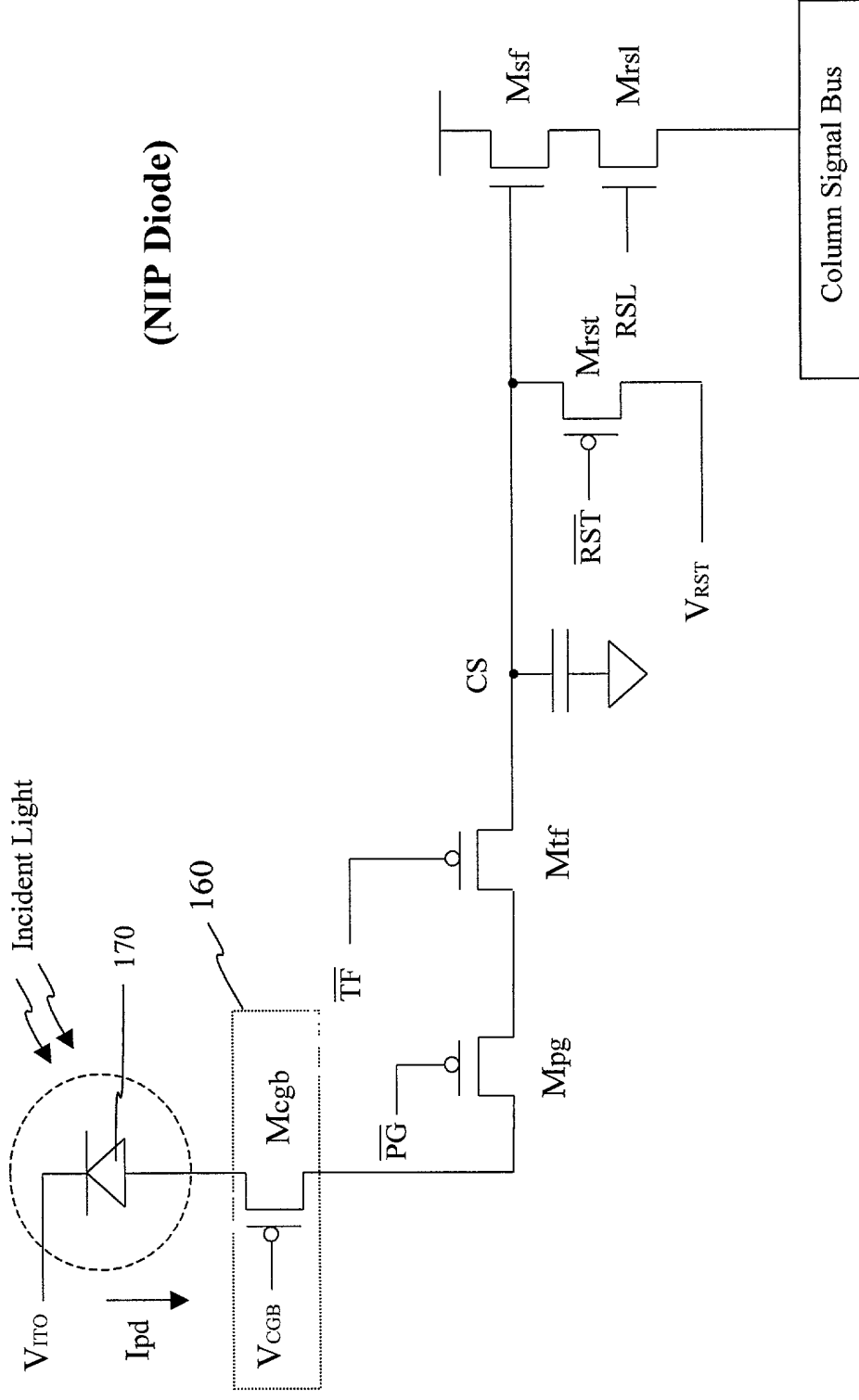


FIG. 9

Alternative Pixel Cell Array And Related Circuitry

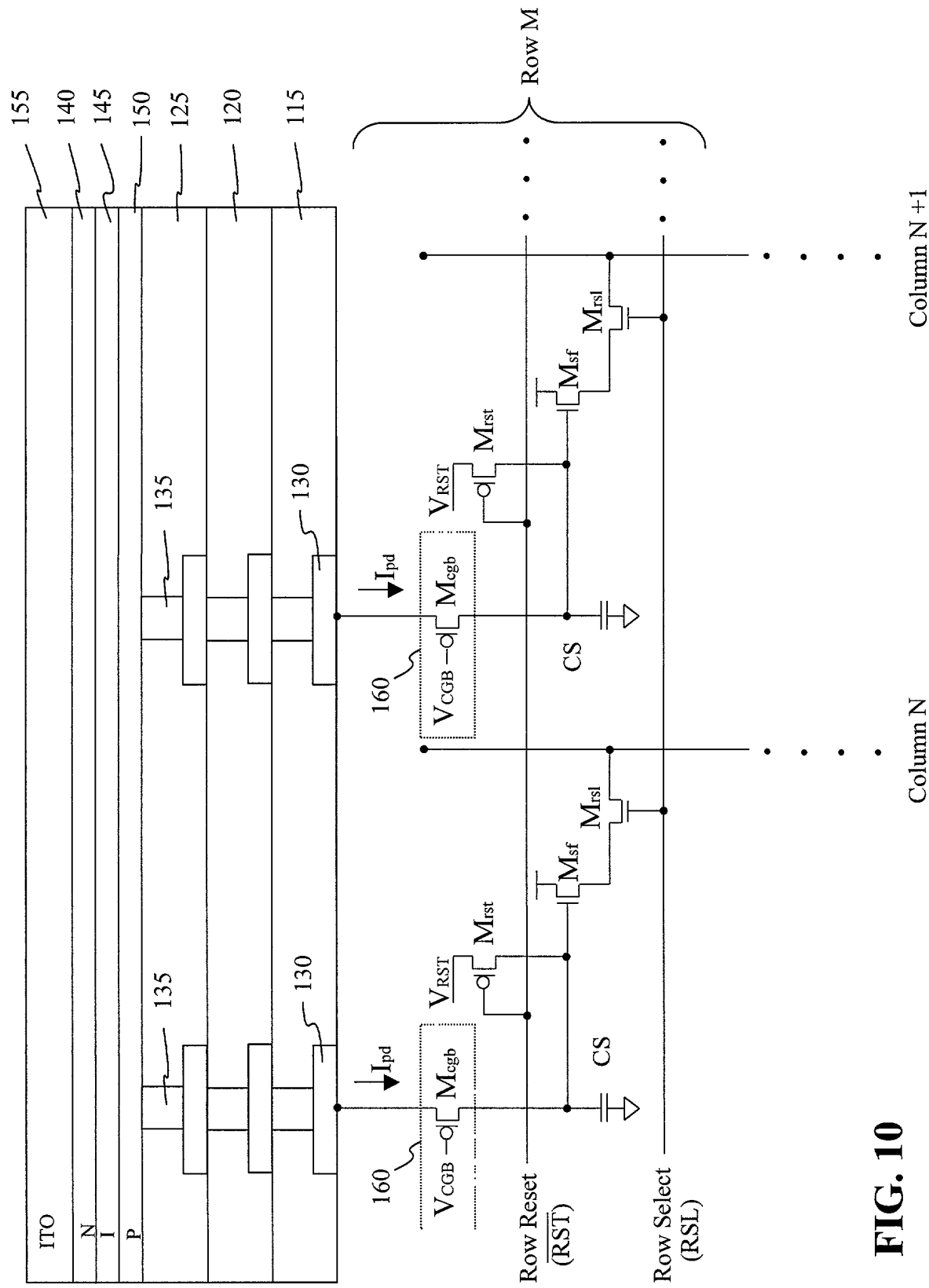


FIG. 10